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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (currently amended) A system for software maintenance of a network access

device, said system comprising:

(a) an access point device for making a wireless connection between a mobile computer and

a communications network, said device including (i) a memory of software containing first

device management software for providing a device management function; and (ii) software

loading apparatus for automatically loading second software through said network for

replacing said first software, and directly begins loading upon checking that said first

software requires replacement without manual maintenance by a user such that the access

point device is self-maintaining.

2. (previously presented) A system as recited in claim 1 further comprising a

server including apparatus for receiving data input from a computer for installation and

storing said second software for said loading by said software loading apparatus through said

network.

3. (previously presented) A system as recited in claim 2 wherein said device

further includes version checker apparatus for checking a version of said second software.

and wherein said software loading apparatus loads said second software if a version of said

second software is different from a version of said first software.

4. (original) A system as recited in claim 3 further comprising first authentication

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apparatus for authenticating an identity of said server to said device.

5. (original) A system as recited in claim 4 further comprising second

authentication apparatus for authenticating an identity of said device to said server.

6. (previously presented) A system as recited in claim 3 further comprising

automatic apparatus for automatically performing said checking and said loading at a

predetermined time.

7. (original) A system as recited in claim 6 further comprising shut-down apparatus

for stopping an acceptance of new connections prior to said loading.

8. (previously presented) A system as recited in claim 1 wherein said loading is

performed automatically at a predetermined time.

9. (currently amended) A method of maintaining software on a communication

network access device, said method comprising:

(a) first storing a first device management software in a memory in said device;

(b) periodically checking availability of a second device management software; and

(c) automatically loading the second device management software, immediately following

said checking, through said network for replacing said first software such that the device is

self-maintaining.

10. (original) A method as recited in claim 9 further comprising inputting upgrade

data to a server from a computer, said data for installing and storing said second device

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management software in said server.

11. (original) A method as recited in claim 10 further comprising checking a version

of said second software, and wherein said loading is performed if said second software is a

different version from said first software.

12. (original) A method as recited in claim 11 further comprising first authenticating

an identity of said server to said device.

13. (original) A method as recited in claim 12 further comprising second

authenticating an identity of said device to said server.

14. (previously presented) A method as recited in claim 11 further comprising

automatically performing said checking and said loading at a predetermined time without

manual maintenance from a user.

15. (original) A method as recited in claim 14 further comprising stopping an

acceptance of a new connection prior to said loading.

(previously presented) A method as recited in claim 9 further comprising

automatically performing said loading at a predetermined time without manual maintenance

from a user.

17. (currently amended) A system providing access to a communication network

comprising:

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(a) an access point device for making a wireless connection between a mobile user

and a source network, said access point device including (i) first device management

software for providing a device management function; (ii) access device loading apparatus

for loading second device management software through a network for replacing said first

software without manual maintenance by a user such that the access point device is self-

maintaining;

(b) user authorization server apparatus for authorizing a mobile user to access the

communication network through said access point device and said source network in which

the mobile user is authorized through one or more embedded IDs generated into an

embedded reserved field of a file; and

(c) remote maintenance server apparatus including apparatus for receiving and storing

an upgrade to said first software from a network connected computer for creation of said

second software, and for facilitating said loading in cooperation with said access point

device.

18. (previously presented) A system as recited in claim 17 wherein said user

authorization server apparatus includes

(a) source network server apparatus including apparatus for receiving a request from

said mobile user to access said communication network, and for determining if said mobile

user is currently authorized to access the communication network, and for a currently authorized mobile user to allow said authorized mobile user said access, and for an

unauthorized mobile user, not to forward said request;

(b) redirection server apparatus for receiving from said source server said forwarded

request by said unauthorized mobile user for communication network access, and for

redirecting said request; and

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(c) user authentication server apparatus for receiving said unauthorized user's request

from said redirection server, and for authorizing said unauthorized mobile user to access said

communication network; and

(d) gate keeper server apparatus for receiving an authorization from said

authentication server and for informing said source network apparatus that said mobile user

is to be allowed access to said communication network.

19. (original) A system as recited in claim 17 wherein said access point device

further includes version checker apparatus for checking a version of said second software,

and wherein said loading apparatus loads said second software if a version of said second

software is different from a version of said first software.

20. (original) A system as recited in claim 19 further comprising first authentication

apparatus for authenticating an identity of said remote maintenance server to said access

point device.

21. (original) A system as recited in claim 20 further comprising second

authentication apparatus for authenticating an identity of said access point device to said

remote maintenance server.

22. (previously presented) A system as recited in claim 19 further comprising

apparatus for automatically performing said checking and said loading at a predetermined

time.

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23. (original) A system as recited in claim 22 further comprising shut-down apparatus for stopping an acceptance of new connections prior to said loading.

24. (previously presented) A system as recited in claim 17 wherein said loading is performed automatically at a predetermined time.